



Texas Brine Company, LLC

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Belle Rose, LA 70341
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February 15, 2013

Commissioner James H. Welsh
P.O. Box 94275
Baton Rouge, LA 70804

RE: In response to State of Louisiana Department of Natural Resources Office of Conservation's Second Amendment to Declaration of Emergency and Directive

Commissioner Welsh,

In response to the Second Amendment and Declaration of Emergency and Directive order issued by the Louisiana Department of Natural Resources (LDNR), Office of Conservation on September 25, 2012, Texas Brine Company, LLC (TPC) understands the seven items listed in the document.

In the above mentioned, TBC was specifically directed and ordered to perform certain tasks outlined in the above mentioned document. Below are the required responses, as directed.

1. TBC's counsel provided LDNR legal counsel with a response to Directives 1-3 on September 28, 2012.
2. TBC understands Directive 4, which is to provide all daily logs and field notes from all contractors conducting investigation into subsidence and natural gas bubbling. The Daily Action Summary and results for current information can be found in the Attachment section of this report.
3. TBC understands Directive 5, which directs TBC to immediately allow for split or share any sample taken on site related to Well 3A (Serial Number 974265), the cavern, other wells facilities or other site locations. The Daily Action Summary of today's collection can be found in Attachment section of this report.
4. TBC understands Directive 6, which directs TBC to immediately report the results (final and preliminary) of any tests, logs samples or data collection performed on Well 3A, the cavern, other wells, facilities or site locations that indicate a change in any previously known conditions related to the investigation of the subsidence or natural gas bubbling

events, and continue to report any such results. The Daily Action Summary and the Results related to this Directive can be found in Attachment section of this report.

5. TBC understands the Directive 7, which states that TBC will provide a daily summary of all tests, or logs performed or samples taken from Well 3A and the cavern as well as any results of those tests or logs, including preliminary as of September 25, 2012 and going forward. The Daily Summary and Results related to this Directive can be found in Attachment section of this report.

Please note that the drilling rig used for the Observation Well 3A has been removed and the site is being rigged down and returned to pre-drilling condition. As such, daily drilling reports for this well have ceased. Plans are being made for longer term potential gas venting/flaring requirements and possible hydrocarbon material recover from Well 3A.

In addition, previous daily summary reports issued to LDNR have included significant duplicate information as there is a fair amount of overlap in the information requested in each of the Directives included in the September 25, 2012 order. All requested information associated with the Directives issued in the September 25, 2012 order are included in the Attachment section of this report.

TBC believes that the submittal of this report satisfies the requirements of the Declaration of Emergency and Directive issued on September 25, 2012. As directed this report is submitted by email to conservationorder@la.gov, ref. "Emergency Declaration-Texas Brine Company LLC-9/25/2012.



Bruce E. Martin

Vice President, Operations

Texas Brine Company, LLC

Summary Table for Daily Events

TBC Oxy Grand Bayou Data Management-Environmental											
Contractor	Responsibilities		Collected By		Date Collected		Delivered to Lab	Results from Lab	Laboratory	Method	Date to Agencies
Sage	Stationary Air Monitoring		eve Shaughnessy - 08:00 - 09:00ete Hyatt IV (Code Red) - 07:00 - 17:00		2/14/2013		No	No	No	AreaRAE Monitors	2/15/2013
	Residential Air Monitoring		No work performed		2/14/2013		NA	NA	NA	NA	NA
	Gas Seep Sampling		No work performed		2/14/2013		NA	NA	NA	NA	NA
	Well Gas Sampling		No work performed		2/14/2013		NA	NA	NA	NA	NA
	Indoor Air Monitoring		No work performed		2/14/2013		NA	NA	NA	NA	NA
Respec	Inclinometers/Tilt Meters		2/14/2013	Layout new water level monitoring locations		P. Smith/ W. Goodman	NA	2/15/2013	Read from Atlas		NA
	InSAR Reflector Installations		2/14/2013	No work conducted		No work conducted	NA	2/14/2013	NA		NA
	Subsidence Survey-Fenstermaker		2/14/2013	No work conducted		No work conducted	NA	2/14/2013	NA		NA
	Shallow Geophone Installation		2/14/2013	No work conducted		No work conducted	NA	2/14/2013	NA		NA
	Deep Geophone Installation		2/14/2013	Observe & log capped core @ Ardaman Baton Rouge office		P.Smith	DJG	2/14/2013	NA		NA
	Amendment #3, Directive #2		2/14/2013	Work Completed, no work conducted		Work Completed, no work conducted	NA	2/14/2013	NA		NA
Miller	Weekly Stability Survey		Kevin Pichoff		Feb. 14, 2013		NA		NA	NA	NA
	Misc. Survey Work		Kevin Pichoff		Feb. 14, 2013		NA		NA	NA	NA
	Sinkhole Hydro/Perimeter Survey		No Work Performed		Feb. 14, 2013		NA		NA	NA	NA
Pisani	Surface Water		NA		NA		NA		NA	NA	NA
	Well Water		NA		NA		NA		NA	NA	NA
	Geoprobe Wells		NA		NA		NA		NA	NA	NA
Grand Bayou Well 3A											
Daily Operations at 3A			Summary of Today's events								
			Oxy 3A								
2/15/2013			7am	2/15/2013							
			615.47	Relief Well #1							
2/15/2013			See ORW-01 Flare Spreadsheet								

Laboratory

Lab Contact

Laboratory

Lab Contact

Attachments

Daily Action Summary

February 14, 2013

Stationary Air Monitoring

- Steve Shaughnessy onsite from 08:00 to 09:00. Changed out the monitors between 08:16 and 08:39. Collected data from the monitoring database and forwarded to Jill Martin in the Baton Rouge office for processing.
- Pete Hyatt IV of Code Red (monitor sub-contractor) onsite from 07:00 to 17:00. Assisted in battery change outs and maintenance of the monitoring equipment.

Residential Air Monitoring

- Not Scheduled

Gas Seep Sampling

- Not Scheduled

Well Gas Sampling

- Not Scheduled

Air Indoor Monitoring

- Not Scheduled

Texas Brine - Belle Rose, Louisiana
Hourly Air Monitoring Data

*Time indicates start of time period (ex. 12:00:00 AM gives the time period 12:00:00 AM to 12:59:59 AM)

Date-Time *	South-most Pipeline Site					Middle-most Pipeline Site					North-most Pipeline Site					On Drill Rig Boom					Relief Well				
	AM-3					AM-2					AM-1					OG 3A-1					RW-1				
	CO (ppm)	Non-Methane VOC (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CO (ppm)	Non-Methane VOC (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CO (ppm)	Non-Methane VOC (ppm)	H2S (ppm)	LEL (%)	O2 (%)	SO2 (ppm)	Non-Methane VOC (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CO (ppm)	Non-Methane VOC (ppm)	H2S (ppm)	LEL (%)	O2 (%)
02/14/2013 01:00:00 AM	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	21.6	<1.0	0.0	<1.0	0.0	20.8
02/14/2013 02:00:00 AM	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	21.6	<1.0	0.0	<1.0	0.0	20.7
02/14/2013 03:00:00 AM	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	21.6	<1.0	0.0	0.0	0.0	20.6
02/14/2013 04:00:00 AM	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	<1.0	0.0	20.9	Downtime due to battery malfunction					0.0	0.0	0.0	0.0	21.6	0.0	0.0	0.0	0.0	20.7
02/14/2013 05:00:00 AM	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	<1.0	0.0	21.1						0.0	0.0	0.0	0.0	21.6	<1.0	0.0	0.0	0.0	20.8
02/14/2013 06:00:00 AM	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	<1.0	0.0	21.0						0.0	0.0	0.0	0.0	21.7	<1.0	<1.0	0.0	0.0	20.6
02/14/2013 07:00:00 AM	0.0	0.0	0.0	0.0	20.8	<1.0	0.0	<1.0	0.0	20.9						0.0	0.0	<1.0	0.0	21.7	1.9	<1.0	<1.0	0.0	20.6
02/14/2013 08:00:00 AM	<1.0	0.0	0.0	0.0	20.8	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	<1.0	<1.0	0.0	21.1	<1.0	<1.0	<1.0	0.0	20.8
02/14/2013 09:00:00 AM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	21.0	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9
02/14/2013 10:00:00 AM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	21.3	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9
02/14/2013 11:00:00 AM	<1.0	0.0	0.0	0.0	21.3	0.0	0.0	0.0	0.0	21.4	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
02/14/2013 12:00:00 PM	<1.0	0.0	0.0	0.0	21.3	0.0	0.0	0.0	0.0	21.4	0.0	0.0	<1.0	0.0	21.0	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
02/14/2013 01:00:00 PM	<1.0	0.0	0.0	0.0	21.4	0.0	0.0	0.0	0.0	21.4	0.0	0.0	<1.0	0.0	21.3	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
02/14/2013 02:00:00 PM	<1.0	0.0	0.0	0.0	21.5	0.0	0.0	0.0	0.0	21.4	0.0	0.0	0.0	0.0	21.3	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
02/14/2013 03:00:00 PM	<1.0	0.0	0.0	0.0	21.5	0.0	0.0	0.0	0.0	21.4	0.0	0.0	<1.0	0.0	21.2	0.0	0.0	0.0	0.0	20.9	0.0	<1.0	0.0	<1.0	20.9
02/14/2013 04:00:00 PM	<1.0	0.0	0.0	0.0	21.5	0.0	0.0	0.0	0.0	21.4	<1.0	0.0	<1.0	0.0	21.2	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	<1.0	21.2
02/14/2013 05:00:00 PM	<1.0	<1.0	0.0	0.0	21.5	0.0	0.0	0.0	0.0	21.4	0.0	0.0	<1.0	0.0	21.1	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	21.2
02/14/2013 06:00:00 PM	<1.0	0.0	0.0	0.0	21.4	0.0	0.0	0.0	0.0	21.3	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
02/14/2013 07:00:00 PM	<1.0	0.0	0.0	0.0	21.4	0.0	0.0	0.0	0.0	21.3	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
02/14/2013 08:00:00 PM	<1.0	0.0	0.0	0.0	21.4	0.0	0.0	0.0	0.0	21.3	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
02/14/2013 09:00:00 PM	<1.0	0.0	0.0	0.0	21.3	0.0	0.0	0.0	0.0	21.2	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
02/14/2013 10:00:00 PM	<1.0	0.0	0.0	0.0	21.3	0.0	0.0	0.0	0.0	21.3	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9
02/14/2013 11:00:00 PM	<1.0	0.0	0.0	0.0	21.3	0.0	0.0	0.0	0.0	21.2	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9
02/15/2013 12:00:00 AM	<1.0	<1.0	0.0	0.0	21.3	0.0	0.0	0.0	0.0	21.2	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9

Notes:
RTU-2, located at AM-1, experienced downtime due to a battery malfunction.

Texas Brine - Belle Rose, Louisiana
Hourly Air Monitoring Data

*Time indicates start of time period (ex. 12:00:00 AM gives the time period 12:00:00 AM to 12:59:59 AM)

Date-Time *	South-most Pipeline Site					Middle-most Pipeline Site					North-most Pipeline Site					On Drill Rig Boom					Relief Well				
	AM-3					AM-2					AM-1					OG 3A-1					RW-1				
	CO (ppm)	Non-Methane VOC (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CO (ppm)	Non-Methane VOC (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CO (ppm)	Non-Methane VOC (ppm)	H2S (ppm)	LEL (%)	O2 (%)	SO2 (ppm)	Non-Methane VOC (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CO (ppm)	Non-Methane VOC (ppm)	H2S (ppm)	LEL (%)	O2 (%)
02/14/2013 05:00:00 AM	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	<1.0	0.0	21.1	Downtime due to battery malfunction					0.0	0.0	0.0	0.0	21.6	<1.0	0.0	0.0	0.0	20.8
02/14/2013 06:00:00 AM	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	<1.0	0.0	21.0						0.0	0.0	0.0	0.0	21.7	<1.0	<1.0	0.0	0.0	20.6
02/14/2013 07:00:00 AM	0.0	0.0	0.0	0.0	20.8	<1.0	0.0	<1.0	0.0	20.9						0.0	0.0	<1.0	0.0	21.7	1.9	<1.0	<1.0	0.0	20.6
02/14/2013 08:00:00 AM	<1.0	0.0	0.0	0.0	20.8	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	0.0	<1.0	<1.0	0.0	21.1	<1.0	<1.0	<1.0	0.0	20.8
02/14/2013 09:00:00 AM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	21.0	<1.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9
02/14/2013 10:00:00 AM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	21.3	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9
02/14/2013 11:00:00 AM	<1.0	0.0	0.0	0.0	21.3	0.0	0.0	0.0	0.0	21.4	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
02/14/2013 12:00:00 PM	<1.0	0.0	0.0	0.0	21.3	0.0	0.0	0.0	0.0	21.4	0.0	0.0	<1.0	0.0	21.0	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
02/14/2013 01:00:00 PM	<1.0	0.0	0.0	0.0	21.4	0.0	0.0	0.0	0.0	21.4	0.0	0.0	<1.0	0.0	21.3	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
02/14/2013 02:00:00 PM	<1.0	0.0	0.0	0.0	21.5	0.0	0.0	0.0	0.0	21.4	0.0	0.0	0.0	0.0	21.3	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
02/14/2013 03:00:00 PM	<1.0	0.0	0.0	0.0	21.5	0.0	0.0	0.0	0.0	21.4	0.0	0.0	<1.0	0.0	21.2	0.0	0.0	0.0	0.0	20.9	0.0	<1.0	0.0	<1.0	20.9
02/14/2013 04:00:00 PM	<1.0	0.0	0.0	0.0	21.5	0.0	0.0	0.0	0.0	21.4	<1.0	0.0	<1.0	0.0	21.2	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	<1.0	21.2
02/14/2013 05:00:00 PM	<1.0	<1.0	0.0	0.0	21.5	0.0	0.0	0.0	0.0	21.4	0.0	0.0	<1.0	0.0	21.1	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	21.2
02/14/2013 06:00:00 PM	<1.0	0.0	0.0	0.0	21.4	0.0	0.0	0.0	0.0	21.3	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
02/14/2013 07:00:00 PM	<1.0	0.0	0.0	0.0	21.4	0.0	0.0	0.0	0.0	21.3	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
02/14/2013 08:00:00 PM	<1.0	0.0	0.0	0.0	21.4	0.0	0.0	0.0	0.0	21.3	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
02/14/2013 09:00:00 PM	<1.0	0.0	0.0	0.0	21.3	0.0	0.0	0.0	0.0	21.2	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
02/14/2013 10:00:00 PM	<1.0	0.0	0.0	0.0	21.3	0.0	0.0	0.0	0.0	21.3	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9
02/14/2013 11:00:00 PM	<1.0	0.0	0.0	0.0	21.3	0.0	0.0	0.0	0.0	21.2	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9
02/15/2013 12:00:00 AM	<1.0	<1.0	0.0	0.0	21.3	0.0	0.0	0.0	0.0	21.2	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
02/15/2013 01:00:00 AM	<1.0	0.0	0.0	0.0	21.2	0.0	0.0	0.0	0.0	21.2	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9
02/15/2013 02:00:00 AM	<1.0	0.0	0.0	0.0	21.2	0.0	0.0	0.0	0.0	21.1	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9
02/15/2013 03:00:00 AM	<1.0	0.0	0.0	0.0	21.2	0.0	0.0	0.0	0.0	21.1	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
02/15/2013 04:00:00 AM	<1.0	0.0	0.0	0.0	21.2	0.0	0.0	0.0	0.0	21.2	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9
02/15/2013 05:00:00 AM	<1.0	0.0	0.0	0.0	21.2	0.0	0.0	0.0	0.0	21.2	0.0	0.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9

Notes:

RTU-2, located at AM-1, experienced downtime due to a battery malfunction.

RESPEC Consulting & Services

Texas Brine, L.L.C.

Assumption Parish, Louisiana

Daily Field Report

Report By: David Gnage

Date: 2/14/13

Company: RESPEC

Work Order #: 0

Personnel	Company	Job Title
Peter Smith, CPG	RESPEC	Staff Geologist

Time Onsite: Start Time: 8:00 End Time: 13:00

(Note: on-site time only reflects time on-site; it does not reflect time taken for off-site activities)

Equipment Onsite:

Daily Activity: Layout new water level monitoring locations along rig road. Observe Ardaman extrusion of selected core at Ardaman Baton Rouge office.

Proposed Schedule: February 15th observe Ardaman extrusion of capped core, in Baton Rouge and demob. February 17th & 18th install new water level transducer(s). February 19th to 26th observe/assist Fenstermaker with subsidence survey.

Initials: DJG

ME&A Daily Action Summary

February 14, 2013

Subsidence Survey:

- Arrived @ 8:15
- Ran conventional level loop starting at TBM 2 which is a nail set in a power pole adjacent to the main roadway and OxyGeismar #2 well pad. Ran level loop through brine wells (1,2 & 3), water wells (1,2 & 3), TBM's, and the two brine storage tanks. Attached is a spreadsheet with the results.

Sinkhole Perimeter/Hydrographic Survey:

- No Work Done

Support Sinkhole Cleanup

- No Work Done

Misc. Survey Work

- Detailed GPS survey of swamp bottom on south containment levee centerline at pipeline crossings. Ran conventional level loop on north and south containment levee road to check for settlement.
- Departed @ 4:30 pm

Michael Pisani & Associates
Texas Brine, L.L.C.
Assumption Parish, Louisiana
Daily Field Report

Report By: Patrick Ritchie
Company: MP&A

Date: 2/14/2013
Work Order # 80-05

Health and Safety Meeting ☐ YES ☐ NO

Weather: 55 F clear sunny

<u>Personnel</u>	<u>Company</u>	<u>Job Title</u>
<u>Charles Trahan</u>	<u>MP&A</u>	<u>Geologist</u>
<u>Walker-Hill Drilling Crew</u>		

Site Activities: Start Time 6:55 End Time 17:25

Equipment On-site: Gardner Denver mud rotary rig
1000 Gal poly tank
Skid Steer

Daily Activity:

Set up drill rig at MRAA-02D location
Began drilling at MRAA-02D, 160' below top of pad at end of day

Estimated time of completion:
On-going

Proposed schedule:

Conduct in-situ monitoring surface water transect and industrial water well locations 2/15/2013
Measure water level for the industrial water wells 2/15/2013
Measure pressure and water level at TBC Geoprobe locations 2/18/2013
Continue drilling at MRAA-02D location

Estimated time of completion:
On-going

Initials: PMR